

Date: Fri, 15 Jul 94 13:07:50 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #797
To: Info-Hams

Info-Hams Digest Fri, 15 Jul 94 Volume 94 : Issue 797

Today's Topics:

 CW - THE ONLY MODE!
FCC Delays now at 17 weeks! PLEASE READ!!!
 Gray Areas of 'No Commercial Use'
 IPS Daily Report - 14 July 94
 Listening to Comet/Jupiter collision
 orbs\$196.micro.amsat
 orbs\$196.misc.amsat
 orbs\$196.oscar.amsat
 orbs\$196.weath.amsat
Re: Does CW as a pre-req REALLY Work?
 TDD to PC?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 14 Jul 1994 21:02:06 GMT
From: ihnp4.ucsd.edu!nntp.ucsb.edu!library.ucla.edu!agate!howland.reston.ans.net!
usc!nic-nac.CSU.net!charnel.ecst.csuchico.edu!csusac!csus.edu!zeugma.csusb.edu!
dbrown@network.ucsd.edu
Subject: CW - THE ONLY MODE!
To: info-hams@ucsd.edu

In article <940713173256988@michaelr.com>, Ray Wade (ray.wade@michaelr.com) wrote:
: On 07-11-94 STEVEN JACKSON wrote to ALL...

: SJ> breaking into the tv programs, the local tv station played ---.. at

: Its a morse oh (letter "O") so maybe it means "oh, s*t" as in watch

--- is the letter O, but I think ---.. represents the numeral 8 instead. No idea what it'd mean, of course...

--

Dan Brown dbrown@zeugma.csusb.edu
Bill of Rights: RIP, 1994

Date: Thu, 14 Jul 94 18:48:40 -0500
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!noc.near.net!news2.near.net!
news.delphi.com!usenet@network.ucsd.edu
Subject: FCC Delays now at 17 weeks! PLEASE READ!!!
To: info-hams@ucsd.edu

Scott Richard Rosenfeld <ham@wam.umd.edu> writes:

>He said that upon his tour of the FCC license processing facility last week,
>they now have SIX computer terminals, but only ONE person processing
>licenses (this is, sadly, true). The FCC may actually consider volunteers

Hmmm. Six terminals for each worker...sounds about right! :-)

I do not understand why those folks aren't smart enough to put a tape on
an answering machine telling callers what the situation is.

Oh, well.

73

-Joe Keenan

Date: Thu, 14 Jul 1994 13:11:03 GMT
From: agate!howland.reston.ans.net!swrinde!emory!rsiatl!ke4zv!gary@ames.arpa
Subject: Gray Areas of 'No Commercial Use'
To: info-hams@ucsd.edu

In article <199407140433.AAA06611@max.tiac.net> chrisp@max.tiac.net (Chris Patti
{ Feoh }) writes:

>I was thinking of using a laptop + TNC + HT and a PC + TNC + another HT at
>home and using the laptop to connect to the home PC with packet <said home
>PC runs UNIX so such things are readily possible>.

>

>One of the niftier uses for such a setup would be able to do things like work
>on projects from *ANYWHERE* within the range of the two HT's running alone with
>no help.

>
>But then I was thinking, would, for instance, using such a connection to work
>on some shell scripts I was writing for my job be considered 'Commercial Use'
>?

Yes it would because it's directly related to your job.

>What if I told my PC to dial up my Internet access provider and checked my
>mail? I've paid them for a service, so is my dialing up their terminal server
>and logging in a commercial transaction?

No, that would be OK under the new rules, unless answering Email is part of your regular job. The fact that you pay for the internet connection is irrelevant. It's no different than the radio club paying for the phone line for the autopatch on the repeater. The test is if it's directly related to an income producing activity for you or your employer. If it incidentally makes money for someone else, that's not a problem.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Thu, 14 Jul 1994 23:21:01 GMT
From: ihnp4.ucsd.edu!munari.oz.au!yoyo.aarnet.edu.au!yarrina.connect.com.au!
news.uwa.edu.au!harbinger.cc.monash.edu.au!news.cs.su.oz.au!metro!ipso!
rwc@network.ucsd.edu
Subject: IPS Daily Report - 14 July 94
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT
ISSUED AT 14/2330Z JULY 1994 BY IPS RADIO AND SPACE SERVICES
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.
SUMMARY FOR 14 JULY AND FORECAST FOR 15 JULY - 17 JULY

IPS Disturbance Warning 18 was issued on 11 July and is current for
interval 15-16 July

1A. SOLAR SUMMARY

Activity: low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 082/023

GOES satellite data for 13 Jul

Daily Proton Fluence >1 MeV: NA

Daily Proton Fluence >10 MeV: NA

Daily Electron Fluence >2 MeV: NA

X-ray background: A6.1

Fluence (flux accumulation over 24hrs)/ cm²-ster-day.

1B. SOLAR FORECAST

	15 Jul	16 Jul	17 Jul
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number for 15 Jul: 080/020

1C. SOLAR COMMENT

None.

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: quiet to active, with minor storm period 15-18UT.

Estimated Indices :	A	K	Observed A Index 13 Jul
Learmonth	21	2334 4533	
Fredericksburg	15		04
Planetary	21		04

Observed Kp for 13 Jul: 2010 1122

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
15 Jul	25	Unsettled to active
16 Jul	25	Unsettled to active
17 Jul	15	Unsettled

2C. MAGNETIC COMMENT

Recurrent coronal hole induced activity expected 15-16 July.

3A. GLOBAL HF PROPAGATION SUMMARY

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
14 Jul	normal	normal	normal

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
15 Jul	normal	normal	fair
16 Jul	normal	normal	fair
17 Jul	normal	normal	fair

3C. GLOBAL HF PROPAGATION COMMENT

None.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

Observed

DATE	T-index	MUFs
14 Jul	38	near predicted monthly values, with 15-30% enhanced 11-16UT.

Predicted Monthly T-index for July: 30

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
15 Jul	35	Near predicted monthly values
16 Jul	30	Near predicted monthly values
17 Jul	30	Near predicted monthly values

4C. AUSTRALIAN REGION COMMENT

Slightly degraded HF propagation conditions likely 15-16 July
due to coronal hole activity.

--

IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
RWC Duty Forecaster tel: +61 2 4148329	PO Box 5606
Recorded Message tel: +61 2 4148330	West Chatswood NSW 2057
email: rwc@ips.oz.au fax: +61 2 4148331	AUSTRALIA

Date: Thu, 14 Jul 1994 13:17:58 GMT
From: pacbell.com!well!barrnet.net!agate!howland.reston.ans.net!swrinde!emory!
rsiatl!ke4zv!gary@ames.arpa
Subject: Listening to Comet/Jupiter collision
To: info-hams@ucsd.edu

In article <302i4h\$7g@kelly.teleport.com> tigger@teleport.com writes:
>According to an article in July's QST, "Hear the impact?," Jupiter
>naturally emits decametric radiation between 3 and 39.5 Mhz and the most
>intense emissions are at 8 Mhz. The earth's ionosphere blocks the lower
>frequencies - especially during daytime hours - so the range between 18
>and 30 Mhz is studied more intensely by radio astronomers. The article
>says that anyone with good 10, 12 or 15 meter antennas should be able to
>hear the comet fragments collide with Jupiter (at least 21 of them). Dr
>F. Reyes at U of Florida says the fragments might interact with the
>planet's magnetosphere and create short bursts of radio energy in the
>last 10 to 20 seconds before impact.

Has anyone here been monitoring Jupiter on the HF bands recently?

I listened years ago but have forgotten what the normal signals sound like. As I recall they were rather distinctive buzzsaw like sounds. How about some frequencies and descriptions of the signal in recent days. I likely won't have my HF antenna back up before Saturday morning (a tree fell on it, and I won't have it back up unless it quits raining long enough to restring it). I don't hear anything that sounds like what I remember listening on a 18 inch clip lead.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 15 Jul 94 15:26:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$196.micro.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-196.D
Orbital Elements 196.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX July 15, 1994
BID: \$ORBS-196.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time: 94194.18674123
Element set: 9
Inclination: 98.5896 deg
RA of node: 278.6106 deg
Eccentricity: 0.0011733
Arg of perigee: 112.1063 deg
Mean anomaly: 248.1368 deg
Mean motion: 14.29849139 rev/day
Decay rate: 6.0e-08 rev/day^2
Epoch rev: 23330
Checksum: 304

Satellite: A0-16
Catalog number: 20439
Epoch time: 94191.23243034

Element set: 807
Inclination: 98.5970 deg
RA of node: 276.9521 deg
Eccentricity: 0.0011864
Arg of perigee: 120.8244 deg
Mean anomaly: 239.4105 deg
Mean motion: 14.29902905 rev/day
Decay rate: 2.0e-08 rev/day^2
Epoch rev: 23289
Checksum: 299

Satellite: D0-17

Catalog number: 20440
Epoch time: 94191.18451979
Element set: 807
Inclination: 98.5982 deg
RA of node: 277.2360 deg
Eccentricity: 0.0011890
Arg of perigee: 119.6518 deg
Mean anomaly: 240.5849 deg
Mean motion: 14.30042562 rev/day
Decay rate: 8.0e-08 rev/day^2
Epoch rev: 23290
Checksum: 314

Satellite: W0-18

Catalog number: 20441
Epoch time: 94193.67915633
Element set: 810
Inclination: 98.5990 deg
RA of node: 279.7005 deg
Eccentricity: 0.0012641
Arg of perigee: 113.6115 deg
Mean anomaly: 246.6399 deg
Mean motion: 14.30016962 rev/day
Decay rate: 1.3e-07 rev/day^2
Epoch rev: 23326
Checksum: 299

Satellite: L0-19

Catalog number: 20442
Epoch time: 94192.18636356
Element set: 806
Inclination: 98.5997 deg
RA of node: 278.4886 deg
Eccentricity: 0.0012869
Arg of perigee: 117.3153 deg
Mean anomaly: 242.9341 deg

Mean motion: 14.30113219 rev/day
Decay rate: 1.1e-07 rev/day^2
Epoch rev: 23306
Checksum: 313

Satellite: UO-22

Catalog number: 21575
Epoch time: 94194.66619103
Element set: 511
Inclination: 98.4338 deg
RA of node: 268.6283 deg
Eccentricity: 0.0007042
Arg of perigee: 206.6952 deg
Mean anomaly: 153.3878 deg
Mean motion: 14.36923444 rev/day
Decay rate: 4.5e-07 rev/day^2
Epoch rev: 15688
Checksum: 326

Satellite: K0-23

Catalog number: 22077
Epoch time: 94194.13082891
Element set: 406
Inclination: 66.0832 deg
RA of node: 225.6621 deg
Eccentricity: 0.0015044
Arg of perigee: 281.6382 deg
Mean anomaly: 78.2949 deg
Mean motion: 12.86286951 rev/day
Decay rate: -3.7e-07 rev/day^2
Epoch rev: 9012
Checksum: 306

Satellite: A0-27

Catalog number: 22825
Epoch time: 94193.74755536
Element set: 304
Inclination: 98.6530 deg
RA of node: 269.3004 deg
Eccentricity: 0.0009155
Arg of perigee: 129.4928 deg
Mean anomaly: 230.7062 deg
Mean motion: 14.27628830 rev/day
Decay rate: 4.0e-08 rev/day^2
Epoch rev: 4133
Checksum: 301

Satellite: IO-26

Catalog number: 22826
Epoch time: 94192.74556263
Element set: 304
Inclination: 98.6522 deg
RA of node: 268.3468 deg
Eccentricity: 0.0009568
Arg of perigee: 134.0785 deg
Mean anomaly: 226.1185 deg
Mean motion: 14.27733130 rev/day
Decay rate: 3.0e-08 rev/day^2
Epoch rev: 4119
Checksum: 309

Satellite: K0-25
Catalog number: 22830
Epoch time: 94193.17093563
Element set: 309
Inclination: 98.5531 deg
RA of node: 265.7524 deg
Eccentricity: 0.0012396
Arg of perigee: 101.6312 deg
Mean anomaly: 258.6268 deg
Mean motion: 14.28059498 rev/day
Decay rate: -1.0e-07 rev/day^2
Epoch rev: 4126
Checksum: 304

/EX

Date: 15 Jul 94 15:28:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$196.misc.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-196.M
Orbital Elements 196.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH, TX July 15, 1994
BID: \$ORBS-196.M
TO ALL RADIO AMATEURS BT

Satellite: POSAT
Catalog number: 22829
Epoch time: 94193.24660920
Element set: 297

Inclination: 98.6491 deg
RA of node: 268.8716 deg
Eccentricity: 0.0010740
Arg of perigee: 120.3722 deg
Mean anomaly: 239.8519 deg
Mean motion: 14.28032813 rev/day
Decay rate: 1.3e-07 rev/day^2
Epoch rev: 4127
Checksum: 297

Satellite: MIR

Catalog number: 16609
Epoch time: 94194.90801470
Element set: 679
Inclination: 51.6459 deg
RA of node: 52.7244 deg
Eccentricity: 0.0003477
Arg of perigee: 143.6748 deg
Mean anomaly: 216.4466 deg
Mean motion: 15.56583481 rev/day
Decay rate: 6.924e-05 rev/day^2
Epoch rev: 48018
Checksum: 333

Satellite: HUBBLE

Catalog number: 20580
Epoch time: 94192.85852801
Element set: 505
Inclination: 28.4692 deg
RA of node: 77.4963 deg
Eccentricity: 0.0006071
Arg of perigee: 346.8534 deg
Mean anomaly: 13.1893 deg
Mean motion: 14.90638114 rev/day
Decay rate: 4.26e-06 rev/day^2
Epoch rev: 3307
Checksum: 297

Satellite: GRO

Catalog number: 21225
Epoch time: 94190.87753482
Element set: 114
Inclination: 28.4619 deg
RA of node: 74.6101 deg
Eccentricity: 0.0003465
Arg of perigee: 117.4235 deg
Mean anomaly: 242.6711 deg
Mean motion: 15.41023364 rev/day

Decay rate: 2.166e-05 rev/day^2
Epoch rev: 6044
Checksum: 264

Satellite: UARS
Catalog number: 21701
Epoch time: 94192.89558286
Element set: 554
Inclination: 56.9857 deg
RA of node: 60.0520 deg
Eccentricity: 0.0005570
Arg of perigee: 103.1912 deg
Mean anomaly: 256.9743 deg
Mean motion: 14.96455115 rev/day
Decay rate: 3.368e-05 rev/day^2
Epoch rev: 15463
Checksum: 312

/EX

Date: 15 Jul 94 15:24:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$196.oscar.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-196.0
Orbital Elements 196.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH, TX July 15, 1994
BID: \$ORBS-196.0
TO ALL RADIO AMATEURS BT

Satellite: AO-10
Catalog number: 14129
Epoch time: 94176.41110075
Element set: 289
Inclination: 27.0856 deg
RA of node: 321.0039 deg
Eccentricity: 0.6024383
Arg of perigee: 189.2195 deg
Mean anomaly: 150.8337 deg
Mean motion: 2.05882336 rev/day
Decay rate: -3.06e-06 rev/day^2
Epoch rev: 8295
Checksum: 298

Satellite: UO-11
Catalog number: 14781
Epoch time: 94195.06242397
Element set: 707
Inclination: 97.7856 deg
RA of node: 208.5283 deg
Eccentricity: 0.0011425
Arg of perigee: 178.8317 deg
Mean anomaly: 181.2912 deg
Mean motion: 14.69229240 rev/day
Decay rate: 8.3e-07 rev/day^2
Epoch rev: 55425
Checksum: 322

Satellite: RS-10/11
Catalog number: 18129
Epoch time: 94191.83829016
Element set: 925
Inclination: 82.9253 deg
RA of node: 311.3579 deg
Eccentricity: 0.0011286
Arg of perigee: 326.8723 deg
Mean anomaly: 33.1722 deg
Mean motion: 13.72339043 rev/day
Decay rate: 2.3e-07 rev/day^2
Epoch rev: 35315
Checksum: 294

Satellite: A0-13
Catalog number: 19216
Epoch time: 94194.95255508
Element set: 929
Inclination: 57.7505 deg
RA of node: 242.1137 deg
Eccentricity: 0.7218612
Arg of perigee: 345.7422 deg
Mean anomaly: 1.7891 deg
Mean motion: 2.09718797 rev/day
Decay rate: 2.98e-06 rev/day^2
Epoch rev: 4657
Checksum: 339

Satellite: F0-20
Catalog number: 20480
Epoch time: 94189.41964946
Element set: 704
Inclination: 99.0382 deg

RA of node: 337.2291 deg
Eccentricity: 0.0540391
Arg of perigee: 291.4400 deg
Mean anomaly: 62.9899 deg
Mean motion: 12.83226051 rev/day
Decay rate: -3.1e-07 rev/day^2
Epoch rev: 20685
Checksum: 311

Satellite: A0-21

Catalog number: 21087
Epoch time: 94194.16588839
Element set: 488
Inclination: 82.9469 deg
RA of node: 123.4935 deg
Eccentricity: 0.0036545
Arg of perigee: 13.7087 deg
Mean anomaly: 346.5049 deg
Mean motion: 13.74542040 rev/day
Decay rate: 9.4e-07 rev/day^2
Epoch rev: 17315
Checksum: 332

Satellite: RS-12/13

Catalog number: 21089
Epoch time: 94194.88952093
Element set: 707
Inclination: 82.9198 deg
RA of node: 351.6397 deg
Eccentricity: 0.0030785
Arg of perigee: 35.6257 deg
Mean anomaly: 324.6938 deg
Mean motion: 13.74043526 rev/day
Decay rate: 2.7e-07 rev/day^2
Epoch rev: 17231
Checksum: 338

Satellite: ARSENE

Catalog number: 22654
Epoch time: 94188.21304092
Element set: 264
Inclination: 1.8958 deg
RA of node: 98.1428 deg
Eccentricity: 0.2918247
Arg of perigee: 185.7752 deg
Mean anomaly: 169.5951 deg
Mean motion: 1.42202950 rev/day
Decay rate: -1.16e-06 rev/day^2

Epoch rev: 148
Checksum: 305

/EX

Date: 15 Jul 94 15:27:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs\$196.weath.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-196.W
Orbital Elements 196.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH, TX July 15, 1994
BID: \$ORBS-196.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 94194.99686475
Element set: 874
Inclination: 99.0473 deg
RA of node: 245.7977 deg
Eccentricity: 0.0015281
Arg of perigee: 141.2505 deg
Mean anomaly: 218.9765 deg
Mean motion: 14.13628436 rev/day
Decay rate: 8.4e-07 rev/day^2
Epoch rev: 49404
Checksum: 356

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 94194.98167710
Element set: 771
Inclination: 98.5052 deg
RA of node: 203.1638 deg
Eccentricity: 0.0012179
Arg of perigee: 251.8027 deg
Mean anomaly: 108.1826 deg
Mean motion: 14.24897266 rev/day
Decay rate: 8.1e-07 rev/day^2
Epoch rev: 40631
Checksum: 319

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 94194.54056114
Element set: 335
Inclination: 82.5412 deg
RA of node: 247.6202 deg
Eccentricity: 0.0018062
Arg of perigee: 103.4929 deg
Mean anomaly: 256.8248 deg
Mean motion: 13.84718542 rev/day
Decay rate: 5.2e-07 rev/day^2
Epoch rev: 32600
Checksum: 290

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 94194.22136815
Element set: 302
Inclination: 82.5413 deg
RA of node: 305.2575 deg
Eccentricity: 0.0016030
Arg of perigee: 195.4260 deg
Mean anomaly: 164.6376 deg
Mean motion: 13.16967780 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 28668
Checksum: 302

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 94194.97891555
Element set: 692
Inclination: 99.1747 deg
RA of node: 184.5475 deg
Eccentricity: 0.0012899
Arg of perigee: 57.3264 deg
Mean anomaly: 302.9149 deg
Mean motion: 14.13002039 rev/day
Decay rate: 7.5e-07 rev/day^2
Epoch rev: 29892
Checksum: 345

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 94191.85639551
Element set: 302
Inclination: 82.5208 deg
RA of node: 125.0543 deg

Eccentricity: 0.0013991
Arg of perigee: 153.7603 deg
Mean anomaly: 206.4260 deg
Mean motion: 13.84367799 rev/day
Decay rate: 4.7e-07 rev/day^2
Epoch rev: 27096
Checksum: 322

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 94194.92403808
Element set: 89
Inclination: 82.5560 deg
RA of node: 251.5016 deg
Eccentricity: 0.0007665
Arg of perigee: 212.6308 deg
Mean anomaly: 147.4475 deg
Mean motion: 13.04409832 rev/day
Decay rate: 4.4e-07 rev/day^2
Epoch rev: 22638
Checksum: 292

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 94193.02564718
Element set: 807
Inclination: 82.5382 deg
RA of node: 188.7333 deg
Eccentricity: 0.0017853
Arg of perigee: 77.2924 deg
Mean anomaly: 283.0207 deg
Mean motion: 13.84189830 rev/day
Decay rate: 3.0e-07 rev/day^2
Epoch rev: 20405
Checksum: 309

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 94194.03417053
Element set: 13
Inclination: 98.8356 deg
RA of node: 213.3492 deg
Eccentricity: 0.0015573
Arg of perigee: 302.7604 deg
Mean anomaly: 57.2060 deg
Mean motion: 14.01356654 rev/day
Decay rate: -8.2e-07 rev/day^2
Epoch rev: 19732

Checksum: 287

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 94192.24637361
Element set: 815
Inclination: 82.5260 deg
RA of node: 126.8437 deg
Eccentricity: 0.0013852
Arg of perigee: 348.2605 deg
Mean anomaly: 11.8236 deg
Mean motion: 13.83584780 rev/day
Decay rate: $5.6e-07$ rev/day²
Epoch rev: 19108
Checksum: 303

Satellite: MET-3/4
Catalog number: 21232
Epoch time: 94192.41447599
Element set: 714
Inclination: 82.5397 deg
RA of node: 152.4638 deg
Eccentricity: 0.0013853
Arg of perigee: 120.2656 deg
Mean anomaly: 239.9835 deg
Mean motion: 13.16463320 rev/day
Decay rate: $5.1e-07$ rev/day²
Epoch rev: 15454
Checksum: 306

Satellite: NOAA-12
Catalog number: 21263
Epoch time: 94194.99451251
Element set: 96
Inclination: 98.6161 deg
RA of node: 222.1803 deg
Eccentricity: 0.0013093
Arg of perigee: 154.5532 deg
Mean anomaly: 205.6291 deg
Mean motion: 14.22428011 rev/day
Decay rate: $1.61e-06$ rev/day²
Epoch rev: 16431
Checksum: 268

Satellite: MET-3/5
Catalog number: 21655
Epoch time: 94194.19428742
Element set: 723

Inclination: 82.5532 deg
RA of node: 98.3833 deg
Eccentricity: 0.0013766
Arg of perigee: 126.6238 deg
Mean anomaly: 233.6140 deg
Mean motion: 13.16831903 rev/day
Decay rate: 5.1e-07 rev/day^2
Epoch rev: 13988
Checksum: 313

Satellite: MET-2/21
Catalog number: 22782
Epoch time: 94194.41246650
Element set: 315
Inclination: 82.5469 deg
RA of node: 185.6515 deg
Eccentricity: 0.0023001
Arg of perigee: 148.4453 deg
Mean anomaly: 211.8095 deg
Mean motion: 13.83010359 rev/day
Decay rate: 3.7e-07 rev/day^2
Epoch rev: 4371
Checksum: 285

/EX

Date: Tue, 12 Jul 1994 13:14:02 GMT
From: walter!dancer.cc.bellcore.com!not-for-mail@uunet.uu.net
Subject: Re: Does CW as a pre-req REALLY Work?
To: info-hams@ucsd.edu

In article <77396187534n12@131.168.114.12>,
<Earl=Morse%EMC=Srv%Eng=Hou@bangate.compaq.com> wrote:
>
>>>I don't care if I have to learn 13 WPM for my general upgrade.
>>>I don't care if it's 20 WPM. I'll learn it if that's what the FCC
>>>says I gotta do. >Matt Rupert
>
>That's the right attitude!
>
>>Hi Matt, I have a hypothetical question for you. What would you do if
>>you tried for hundreds of hours to learn to receive Morse code at 13
>>wpm and just could not do it? I can force my brain to function as a
>>modem but I know somebody who cannot, and he is otherwise a very
>>knowledgable, intelligent person and an asset to the ham community.
>

>What if.....

>I couldn't pass the BAR because I didn't know anything about criminal
>law, should I be allowed to practice any law?

Bad example...your ability to send/receive morse code does not represent any competence which, if you didn't have it, would render you unable to be a good amateur radio operator. Indeed, your example could, at some future point, be acceptable if the BAR associations admitted new lawyers on a specialty basis...i.e. you could know nothing about criminal law but pass a bar exam on civil law only.

>I couldn't back up a tractor/trailer rig, should I be given an over
>the road truck driver's license?

Good example, the "over-the-road" license is a specialty license and your inability to drive a tractor/trailer hasn't stopped you from driving a motor vehicle other than a tractor/trailor. Same can apply for CW requirements. I've suggested before that we retain 20wpm for Extra, but the current Extra Class phone privileges should be moved to the Advanced license privileges while retaining the lower 25KHz as Extra only based on a 20wpm test only.

>I couldn't name all the bones in the body,
>should I be allowed to practice medicine?

Another bad example as such knowledge is critical to being in the medical field. As said before, competency in CW is not a precursor to being a good ham.

>I couldn't learn to receive Morse code, should I be
>allowed to get a ham license that would require the code?

That's done today if there's a valid medical reason why one is unable to pass the relevant CW test for a particular license. The question is not should you be allowed, the question continues to be: Is the 13 and/or 20 wpm requirement given too much emphasis in testing for general and above because it alone is a pass/fail test of one mode of operation, whereas any other mode (SSB, packet, etc.) is tested in the written exam and is part of the total question pool as opposed to a stand alone pass/fail element.

>But I only wanted to.....
>practice divorce law.

Per the above, that could happen in the future...why not?

>drive forward.

No comparison to the CW testing on any safety basis, which is the reason for the specific truck licensing requirement above and beyond your regular driver's license.

>do brain surgery.

Ditto my coments above, this example is so off the mark as any kind of analogy with CW for hams. The CW requirement does not put any ham in a position to "become a radio serice provider" to the public here your lack of CW knowledge would pose some threat to anyone you had dealings with.

>talk on the radio.

Indeed, then why does a ham need 13 or 20 wpm to gain access phone frequencies?

>And I'm a real nice/knowledgeable/intelligent person and would be an >asset to the legal/truck driving/medical/ham community.

>

>Everything in life has its requirements, we meet those requirements >or don't participate.

>Earl Morse

>KZ8E

I'm not against requirements that bear a reasonable relationship to the privaledges gained. Today's CW requirements as pass/fail to higher privaledges simply don't do that. Make the higher CW requirements unique to CW frequency usage only and I'd have no problem with them. 5 wpm is more than adequate to keep testing in line with current international treaties, testing for 13 and 20 on a pass fail basis to gain HF non-CW privaledges makes no sense at all. Again, I have no problem with testing for 13/20 if, and only if, such testing is strictly limited to gaining access to a select set of CW frequencies only.

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.

Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)
Morristown, NJ email via UUCP bcr!cc!whs70
201-829-2879 Weekdays email via Internet whs70@cc.bellcore.com

Date: Thu, 14 Jul 1994 13:42:33 GMT

From: pacbell.com!well!barrnet.net!agate!howland.reston.ans.net!swrinde!emory!
rsiatl!ke4zv!gary@ames.arpa

Subject: TDD to PC?

To: info-hams@ucsd.edu

In article <wcoCswL28.58r@netcom.com> wco@netcom.com (W. Clifton Oliver) writes:
>Does anyone know of a device/circuit that would let a deaf TDD and a PC
>with a modem talk to each other? Reason I ask in this news group is I
>was told TDD is the same (Baudot?) as RTTY.

The TDD is Baudot, but I don't think the modulation is compatible with regular phone modems.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Thu, 14 Jul 94 19:00:06 -0500
From: news.delphi.com!usenet@uunet.uu.net
To: info-hams@ucsd.edu

References <shopsonCsnIEq.2HM@netcom.com>, <Ro8wRPy.joekeen@delphi.com>,
<301pb8\$7l1@server.st.usm.edu>bb
Subject : Re: Passed the test, time to wait...

Suzanne Buice Cleek <sbccleek@whale.st.usm.edu> writes:

>Joseph J. Keenan Jr (joekeen@delphi.com) & Scott Hopson<shopson@netcom.com>,
>
>Congratulations on passing your tests!
>It took almost exactly 9 weeks for my ticket to come. I'll stay with my

Suzi: Thanks for the post. You lucked out...9 weeks is like a snap. I read a post here where the wait is now up to 17 weeks (and counting).

73

-

Joe

End of Info-Hams Digest V94 #797
